AMENDMENTS TO THE SPECIFICATION

Please replace the Abstract with the new Abstract set forth below:

A DOA estimation unit is provided with at least one of two DOA estimation techniques to determine the DOA of signals wireless transmitted. A first technique includes determination of the DOA based at least in part on a relationship between a received signal vector and a number of signal directional vectors. The second technique includes determination of the DOAs of the *L* multipaths of a signal by searching in a direction range centered on a determined DOA of the signal.

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Please amend page 6, lines 14-19 as follows:

For the embodiment, base station 106 includes N antennas 108a-108n, RF unit 110, and signal processing unit 1110, coupled to each other as shown (RF = Radio Frequency). Antennas 108a-108n are employed to transmit to, and receive signals from mobile handsets 102a-102j. Additionally, antennas 108a-108n may be employed for other purposes. Antennas 108a-108n may also be referred to as sensors. For the purpose of this application, the two terms are synonymous.

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Please amend page 6, line 23 through page 7, line 2 as follows:

Signal processing unit 1110 is employed to process the down converted baseband signals, and process outbound signals for up conversion. For the embodiment, signal processing unit 1110, includes in particular DOA Estimation unit 112 and Beamforming unit 114, coupled to each other and to RF unit 110 as shown.

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